

FRBQA QIT

Wound Beads

Six and eleven hole beads, in 43 material and 61 material, are available as beads and wound with tinned copper wire in several winding configurations.

- Available materials: 43 and 61.
- Parts with a "1" as the last digit of the part number are supplied bulk packed. Parts 29 - - 666651 and 29 - - 666631 can be supplied radially taped and reeled per EIA Standard 468-B. This packing method will change the last digit of the part number to a "4".
- Wire used for winding is oxygen free high conductivity copper with a tin plating.
- For performance data on Wound Beads, see page 58 of section "How to Choose Ferrite Components for EMI Suppression"
- Beads are controlled for impedance limits only. They are tested for impedance using a Hewlett Packard HP 4193A Vector Impedance Meter for beads in 43 material and the HP 4191A RF Impedance Analyzer for 61 material beads.
- The Expanded Bead-on-Lead EMI Suppressor Kit (part number 0199000010) is available for prototype evaluation See page 84.

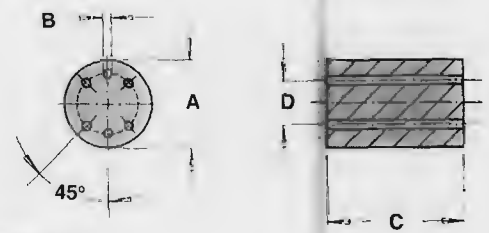


Figure 1

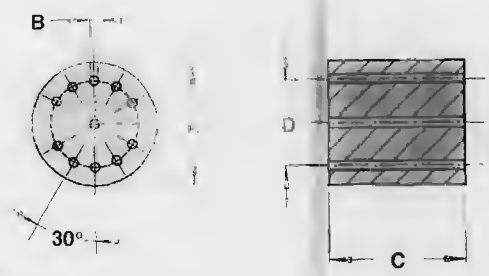


Figure 2

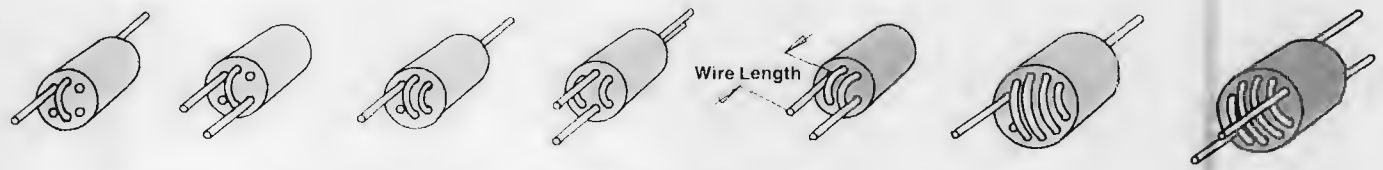


Figure 1-1 Figure 1-2 Figure 1-3 Figure 1-4 Figure 1-5 Figure 2-1 Figure 2-2

Dimensions (Bold numbers are in millimeters, light numbers are nominal in inches.)

| Part Number* | Fig. | A | B | C | D _{Ref} | Wt (g) | Impedance (Ω) | | | | | |
|----------------------------|------|-------------------|-------------------|-------------------|------------------|--------|---------------|----------|----------|----------|----------|----------|
| | | | | | | | 43 | | | 61 | | |
| | | | | | | | 10 MHz | 50 MHz | 100 MHz | 50 MHz | 100 MHz | 200 MHz |
| 26 - - 666611 ^① | 1 | 6.0±0.25 .236 | 0.75±0.15 .032 | 10.0±0.25 .394 | 3.5 .138 | 1.2 | 170 Min. | 320 Min. | 375 Min. | 250 Min. | 425 Min. | 325 Min. |
| 2643777711 ^② | 2 | 10.0±0.25 3.94 | 0.9±0.15 .038 | 10.0±0.25 .394 | 7.5 .295 | 3.3 | 300 Min. | 725 Min. | 400 Min. | - | - | - |

① Tested with 1½ Turns ② Tested with 2½ turns

| Part Number* | Fig. | Turns | Wire Size | Wire Length | Wt (g) | 43 | | | 61 | | |
|---------------|------|--------|----------------|-------------------|--------|----------|-----------|----------|----------|----------|----------|
| | | | | | | 10 MHz | 50 MHz | 100 MHz | 50 MHz | 100 MHz | 200 MHz |
| 29 - - 666661 | 1-1 | 1½ | 0.53 24 AWG | 38.0±3.0 1.500 | 1.3 | 170 Min. | 320 Min. | 375 Min. | 250 Min. | 425 Min. | 325 Min. |
| 29 - - 666651 | 1-2 | 2 | 0.53 24 AWG | 38.0±3.0 1.500 | 1.3 | 240 Min. | 520 Min. | 480 Min. | 525 Min. | 600 Min. | 300 Min. |
| 29 - - 666671 | 1-3 | 2½ | 0.53 24 AWG | 38.0±3.0 1.500 | 1.4 | 320 Min. | 680 Min. | 580 Min. | 750 Min. | 675 Min. | 275 Min. |
| 29 - - 666681 | 1-4 | 2 x 1½ | 0.53 24 AWG | 38.0±3.0 1.500 | 1.4 | 170 Min. | 320 Min. | 350 Min. | 325 Min. | 425 Min. | 300 Min. |
| 29 - - 666631 | 1-5 | 3 | 0.53 24 AWG | 38.0±3.0 1.500 | 1.4 | 400 Min. | 800 Min. | 550 Min. | 950 Min. | 625 Min. | 250 Min. |
| 2943777741 | 2-1 | 4½ | 0.65 22 AWG | 38.0±3.0 1.500 | 3.8 | 750 Min. | 1000 Min. | 400 Min. | - | - | - |
| 2943777721 | 2-2 | 2 x 2½ | 0.65 22 AWG | ③ | 3.9 | 300 Min. | 725 Min. | 400 Min. | - | - | - |

* Insert desired material in 3rd & 4th digit positions.

③ Wire length of one winding is 38.0±3.0 (1.500). Wire length of second winding is 28.5±3.0 (1.125)